

Certified for Diagnostics

Atom Scientific has a pro-active commitment to offering our customers market leading high quality validated products compliant to all relevant UK and Global Standards.

As you may be aware in May 2022 the IVD regulations were replaced with the new IVDR regulations, and since May 2022 Atom Scientifics products are fully IVDR compliant.

In addition to IVDR, all products remain CE marked in our global markets, however post-brexit the UK has adopted the UKCA mark to replace the CE mark, which all of our products are compliant with.

The IVDR regulations **require** any product that is used in a Medical or Diagnostic application to be registered under IVDR.

The ultimate aim of this change is to increase quality and consistency of diagnostic products as well as ensuring full traceability through the supply chain for all components.

It is important to note that any product not registered under IVDR should only be used in research applications, and should not be used in diagnostic applications as recommended by UKAS.

Atom Scientific is one of the few companies that has achieved IVDR compliance, alongside upgrading our Quality Management System to be ISO13485 compliant.

So to conclude I am really pleased to introduce you to our range of Special Stains & Stain Kits offering you pre-validated, Certified for Diagnostic Use and supported by my dedicated Technical Support Team.

Yvonne Black

Technical Manager (PRRC*)



* Person responsible for regulatory compliance

Certificate of Registration



Certificate No. CE/GBR/2021/04/19

Issued To: Atom Scientific Ltd
2A East Tame Business Park
Rexcine Way
Hyde
Cheshire
SK14 4GX UK

Legal Manufacturer [SRN: Not yet available]

Issued By: Advena Limited
Tower Business Centre, 2nd Flr, Tower
Street, Swatar, BKR 4013, Malta.

EC-REP [SRN: MT-AR-000000234]

EU Competent Authority: Malta Medicines Authority (MMA)
Sir Temi Zammit Buildings, Malta Life
Sciences Park, San Gwann SGN 3000
Malta.
Tel: +356 2343 9000
Email: info.medicinesauthority@gov.mt

We hereby declare that:

- Device registrations for the medical devices mentioned within this certificate have duly been completed with the Malta Medicines Authority (MMA) the Competent Authority of Malta.
- Due to the 26th May 2021 Date of Application of Regulation (EU) 2017/745 (MDR) the validity of this certificate is subject to the Legal Manufacturer providing satisfactory evidence that any device claiming compliance to Directive 93/42/EEC (MDD) through Article 120 (3) of Regulation (EU) 2017/745 is legitimately permitted.
- Due to the 26th May 2022 Date of Application of Regulation (EU) 2017/746 (IVDR) the validity of this certificate is subject to the Legal Manufacturer providing satisfactory evidence that any device claiming compliance to Directive 98/79/EC (IVDD) through Article 110(3) of Regulation (EU) 2017/746 is legitimately permitted.

Anthony Kirby – Managing Director

Date of Issue: 10 June 2022

AR Cover Begins: 01 June 2022

AR Cover Ends: 31 May 2023

This certificate is subject to the organisation maintaining their documentation in compliance with the EU legislation as indicated in this certificate.

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Email: ec-rep@advena.mt
Registered in Malta No. C 76865

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ISO9001:2015 Certificate

independent european certification ltd



The management of

Atom Scientific Limited
Unit 2A East Tame Business Park,
Rexcine Way, Hyde, Cheshire, SK14 4GX

has been assessed and certified by independent european certification limited in respect of their
Quality Management System and found to be meeting the requirements of:

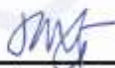
ISO 9001:2015

Certification is hereby granted providing the rules and conditions relating to the certification are
observed at all times

Certification Scope:

**Manufacture, Testing and Supply of
Diagnostic Reagents and Stain Kits for the
Worldwide Life Science Industry.
Supply of General Purpose and Analytical Grade
Chemicals, Solvents and Consumables**

Date of First Issue	Date of Revision	Valid Until:
23 rd August 2013	18 th June 2022	23 rd August 2025
Certificate Number:	EAC Number:	
442230	12/29	


Authorized signature for independent european certification limited

Independent European Certification Ltd
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42A Knight Street
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United Kingdom
PE11 3RB



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visits. The use of the accreditation mark indicates
conformity with the scope of the activities
covered by the scope of our accreditation.

0054





SAFETY DATA SHEET

EOSIN Y 1% AQUEOUS

Page: 1

Compilation date: 14/05/2014

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: EOSIN Y 1% AQUEOUS

Product code: RRSP35

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

Unit 6A

Arrow Trading Estate

Audenshaw

Manchester

M34 5LR

Tel: +44 161 320 0068

Fax: +44 1704 337167

Email: enquiries@atomscientific.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

[cont...]

SAFETY DATA SHEET

EOSIN Y 1% AQUEOUS

Page: 2

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

[cont...]

SAFETY DATA SHEET

EOSIN Y 1% AQUEOUS

Page: 3

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: No data available.

[cont...]

SAFETY DATA SHEET

EOSIN Y 1% AQUEOUS

Page: 4

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

[cont...]

SAFETY DATA SHEET

EOSIN Y 1% AQUEOUS

Page: 5

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



CERTIFICATE OF CONFORMITY

CERTCONF2011

This document certifies that the following product and specific batch has been manufactured to and complies with the company's standard Specification.

It further certifies that the batch has been tested by a diagnostic laboratory and complies with the minimum specification for this product.

PRODUCT CODE	RRSP35		
DESCRIPTION	Eosin Y 1% Aqueous		
BATCH NO	Allocated at time of production		
Manufacture Date	3 Year Shelf Life	Expiry Date	3 Year Shelf Life
SPECIFICATION	Eosin Y is the most common counterstain to alum haematoxylin in the Haematoxylin and Eosin method (H&E). It stains satisfactorily from both aqueous and alcoholic solution. It is one of the dyes in Papanicolaou's EA solutions for staining exfoliative cytology for cervical cancer screening. It can be used to make Romanowsky stains. It is widely used in numerous procedures. It is strongly fluorescent, but this property is hardly ever used. Contains: Eosin Y Sodium Azide Calcium Chloride Distilled Water		
TESTING PROTOCOL (WHERE APPLICABLE)	Supplied against supplier's certificate of analysis/conformity		

We confirm that this batch has been tested in our Laboratory and has been found to stain to our minimum standards and that sample will be retained for the life of the product

Peter Keenan
Commercial Director

Disclaimer

The information contained herein is, to the best of our knowledge and belief, accurate. However, since conditions of handling and use are beyond our control, we do not guarantee any results, and we are not liable for any damage incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 1

Compilation date: 13/11/2020

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: EOSIN (1% ALCOHOLIC)

CAS number: 64-17-5

EINECS number: 200-578-6

Product code: RRSP37

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

2b East Tame Business Park

Hyde

Manchester

SK14 4GX

Tel: 0161 366 5123

Fax: 01704 337167

Email: technical@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 07833453806

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 1: H224; STOT SE 2: H371

Classification under CHIP: F: R11; Xn: R20/21/22; Xn: R68/20/21/22

Most important adverse effects: Extremely flammable liquid and vapour. May cause damage to organs .

2.2. Label elements

Label elements under CLP:

Hazard statements: H224: Extremely flammable liquid and vapour.

H371: May cause damage to organs .

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS08: Health hazard



[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 2

Precautionary statements: P243: Take precautionary measures against static discharge.
P264: Wash thoroughly after handling.
P280: Wear.
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.
Rinse skin with.
P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.
P370+378: In case of fire: Use for extinction.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ETHANOL

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	96.250%

METHANOL

200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	3.750%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 3

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 4

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area.
Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	1920 mg/m ³	-	-	-

Hazardous ingredients:

ETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1920 mg/m ³	-	-	-

METHANOL

UK	266 mg/m ³	333 mg/m ³	-	-
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8.1. DNEL/PNEC Values

Hazardous ingredients:

METHANOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	40 mg/kg	Workers	Systemic
DNEL	Dermal	8 mg/kg	Consumers	Systemic
DNEL	Ingestion	8 mg/kg	Consumers	Systemic
DNEL	Dermal	40 mg/kg	Workers	Systemic
DNEL	Dermal	8 mg/kg	Consumers	Systemic
DNEL	Ingestion	8 mg/kg	Consumers	Systemic
DNEL	Inhalation	260 mg/kg	Workers	Systemic
DNEL	Inhalation	260 mg/kg	Workers	Local
PNEC	Inhalation	260 mg/kg	Workers	Systemic

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 5

DNEL	Inhalation	260 mg/kg	Workers	Local
DNEL	Inhalation	50 mg/kg	Consumers	Systemic
DNEL	Inhalation	50 mg/kg	Consumers	Local
DNEL	Inhalation	50 mg/kg	Consumers	Systemic
DNEL	Inhalation	50 mg/kg	Consumers	Local
PNEC	Soil	23.5 mg/kg	-	-
PNEC	Marine water	15.4 mg/l	-	-
PNEC	Fresh water	154 mg/l	-	-
PNEC	Fresh water sediments	570.4 mg/kg	-	-
PNEC	Onsite sewage treatment plant	100 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Do not let product enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Alcoholic

Viscosity: Non-viscous

Flash point°C: <21

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 6

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	10,470	mg/kg
DERMAL	RBT	LD50	17,100	mg/kg
GASES	RAT	4H LC50	124.7	mg/kg

Hazardous ingredients:

ETHANOL

IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	mg/kg

METHANOL

IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	13,000	mg/l
Daphnia magna	48H EC50	12,340	mg/l
GREEN ALGA (Selenastrum capricornutum)	48H EC50	12,900	mg/l

Hazardous ingredients:

METHANOL

ALGAE	96H ErC50	22000	mg/l
DAPHNIA	48H EC50	>10000	mg/l
FISH	96H LC50	15400	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1993

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 8

14.2. UN proper shipping name

Shipping name: Industrial Methylated Spirits (IMS), Denatured Ethanol

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H224: Extremely flammable liquid and vapour.

H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R11: Highly flammable.

[cont...]

SAFETY DATA SHEET

EOSIN (1% ALCOHOLIC)

Page: 9

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Certificate of Conformity



DESCRIPTION	Eosin Y (1% Alcoholic)	
PRODUCT CODE(S)	RRSP37	
BATCH NUMBER	Allocated at Manufacture	
EXPIRY DATE	3 years	Manufacture Date:

Atom Scientific Ltd
Unit 2B
East Tame Business Park
Hyde SK14 4G
United Kingdom
T: + 44 (0) 161 3665123
E: technical@atomscientific.com

SPECIFICATION	This certificate is valid for all unit sizes of the product
Contains: Denatured Ethanol: > 89% Eosin Y: 1%	

This document certifies that the above product conforms to the Company's expected standard.

A handwritten signature in black ink, appearing to read "Peter Keenan".

Peter Keenan
Commercial Director



Simplicity for Science
www.atomscientific.com

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 1

Compilation date: 03/04/2019

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Product code: RRSP4

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

2b East Tame Business Park

Hyde

Manchester

SK14 4GX

Tel: 0161 366 5123

Fax: 01704 337167

Email: technical@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 07833453806

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ACETIC ACID

EINECS	CAS	CHIP Classification	CLP Classification	Percent
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[cont...]

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 2

200-580-7	64-19-7	-: R10; C: R35	Flam. Liq. 3: H226; Skin Corr. 1A: H314	1-10%
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ALCIAN BLUE 8GX 50% C.I. 74240 STAIN COMMISSION CERTIFIED

251-705-7	33864-99-2	Substance with a Community workplace exposure limit.	-	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water.
Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

[cont...]

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 3

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep away from direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ALCIAN BLUE 8GX 50% C.I. 74240 STAIN COMMISSION CERTIFIED

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	1 mg/m ³	2 mg/m ³	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection: If risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Protective gloves. Use proper glove removal technique (without touching glove's outer

[cont...]

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 4

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environmental: Do not let product enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Blue

pH: 2.5

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Bases.

10.6. Hazardous decomposition products

Haz. decomp. products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 5

Hazardous ingredients:

ACETIC ACID...100%

IVN	MUS	LD50	525	mg/kg
ORL	RAT	LD50	3310	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

[cont...]

SAFETY DATA SHEET

ALCIAN BLUE 8GX (1% IN 3% ACETIC ACID) PH 2.5

Page: 6

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H226: Flammable liquid and vapour.
H314: Causes severe skin burns and eye damage.
R10: Flammable.
R35: Causes severe burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



CERTIFICATE OF CONFORMITY

CERTCONF2011

This document certifies that the following product and specific batch has been manufactured to and complies with the company's standard Specification.

It further certifies that the batch has been tested by a diagnostic laboratory and complies with the minimum specification for this product.

PRODUCT CODE	RRSP4		
DESCRIPTION	Alcian Blue 8GX (1% in 3% Acetic Acid)		
BATCH NO	Allocated at time of production		
Manufacture Date	3 Year Shelf Life	Expiry Date	3 Year Shelf Life
SPECIFICATION	Alcian blue 8GX is primarily used for demonstrating acid mucopolysaccharides, which it does quite selectively Contains: Acetic Acid Alcian Blue 8GX powder Water		
TESTING PROTOCOL (WHERE APPLICABLE)	Supplied against supplier's certificate of analysis/conformity		

We confirm that this batch has been tested in our Laboratory and has been found to stain to our minimum standards and that sample will be retained for the life of the product

Peter Keenan
Commercial Director

Disclaimer

The information contained herein is, to the best of our knowledge and belief, accurate. However, since conditions of handling and use are beyond our control, we do not guarantee any results, and we are not liable for any damage incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.

Congo Red (Highman)

UK NEQAS CPT Scores and Feedback

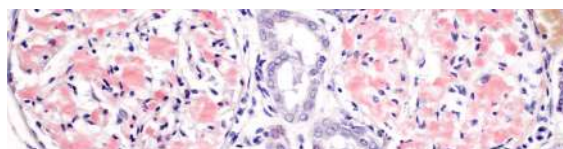
Correct histological assessment of amyloid must include both brightfield and cross polarised light microscopy. The green birefringence of the amyloid - dye complexes observed under strong crossed polarised light with a 10 x objective, in areas stained pink-red in brightfield, is an essential observation for a positive result. Without it amyloid cannot be accurately diagnosed.

The use of dyes other than Congo red may result in less selective staining and reduced green birefringence, and participants of the NEQAS CPT scheme are advised to review the use of such dyes.

The comments from UK NEQAS CPT on our staining was:

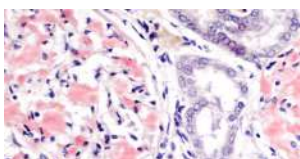
“Excellent appropriate demonstration of the expected staining results, and a high level of quality.”

Stain Kit	Score	Result Date
Congo Red (Highman)	10	Apr 21



10/10
UK
NEQAS





Congo Red Stain Kit (Highman)

This stain kit is used for the detection of Amyloid Protein in tissue sections. The use of alkaline alcoholic solvents has the effect of suppressing staining of other tissue components whilst enhancing hydrogen bonding hence improving selectivity for amyloid. This method has stable solutions and has a high degree of selectivity

		100 Test	200 Test	500 Test	1000 Test
Code	Kit Extension:	- 100	-200	-500	-1000
RRSK10	Congo Red (Highman)	Δ	Δ	Δ	Δ

Kit Components

Congo Red in 50% ethanol	Alcian Blue 1% in 3% Acetic Acid (pH 2.5)
Haemalum Mayer	
Potassium Hydroxide 0.2% in 80% Ethanol	

Congo Red in 50% Ethanol (Highman)



Contains:
Denatured Ethanol: <50%

Code	Pack
RRSP180-D	500ml
RRSP180-E	1L
RRSP180-F	2.5L

Haemalum Mayer



Contains:
Denatured Ethanol: <10%
Chloral Hydrate: <5%
Sodium Iodate: <1%

Code	Pack
RRSP60-D	500ml
RRSP60-E	1L
RRSP60-F	2.5L

Potassium Hydroxide 0.2% in 80% Ethanol



Contains:
Denatured Ethanol: <80%
Potassium Hydroxide: <1%

Code	Pack
RRSP181-D	500ml
RRSP181-E	1L
RRSP1789-F	2.5L

Alcian Blue 8GX (1% in 3% Acetic Acid) pH 2.5



Contains:
Alcian Blue 8GX: <1%
Acetic Acid: <3%

Code	Pack
RRSP4-D	500ml
RRSP4-E	1L
RRSP4-F	2.5L

Certificate of Conformity



DESCRIPTION	Congo Red Stain Kit (Highman)
PRODUCT CODE	RRSK10
BATCH NUMBER	Allocated at Production
SHELF LIFE	3 Years

Atom Scientific Ltd
Unit 2B
East Tame Business Park
Hyde SK14 4G
United Kingdom
T: + 44 (0) 161 3665123
E: technical@atomscientific.com

SPECIFICATION	This stain kit is used for the detection of amyloid in tissue sections. This method uses a solution of Congo Red which has a greater affinity for amyloid. Examination under a polarizing microscope results in apple green birefringence of the amyloid. Amyloid, Elastin, Keratin, eosinophils - Orange/Red Nuclei - Blue This Kit Contains: Congo Red Stain (Highman) Haemalum Mayer Potassium Hydroxide Solution Protocol Sheet
---------------	--

This document certifies that the above product is manufactured to and complies with the company's standard Specification.

It further certifies that each batch is microscopically tested by our internal QC laboratory and meets the company's expected standard.

A handwritten signature in black ink, appearing to read 'Peter Keenan'.

Peter Keenan
Commercial Director





Product Protocol

Product Name	Congo Red Stain Kit (Highman 1946)
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Product Code	RRSK10-100
---------------------	-------------------

Reagents	General Information
Congo Red in 50% ethanol 1x 50ml Haemalum Mayer 1x 50ml 0.2% Potassium Hydroxide in 80% ethanol 2x 50ml	Number of Tests: 100 (based on bench top staining) Procedure Time: 28 minutes (approximate) Shelf Life: 3 Years (from date of manufacture) Storage: 15-25 °C

Principle This kit is used for the detection of Amyloid Protein in tissue sections. This aqueous solution of Congo Red has a greater affinity for amyloid. By using alkaline alcoholic solvents as in this technique it has the effect of suppressing the electrochromical staining of other tissue components. It enhances hydrogen bonding and hence improves selectivity for amyloid. This method has stable solutions and has a high degree of selectivity.

Specimen Collection A standard formaldehyde based fixative provides satisfactory results. Do not use on archival material beyond 1 year old. Fresh paraffin sections are preferable cut at 5 microns
--

Protocol - Dewax sections, hydrate through alcohols and rinse in tap water - Place in filtered congo red solution for 15 minutes - Differentiate in Potassium Hydroxide Solution for 10-20 seconds - Wash well in tap water - Stain nuclei with haemalum Mayer for 5 minutes - Wash well in water - Differentiate in 1% acid alcohol for 10-20 seconds - Wash well in water - Blue in Scotts tap water - Wash well in tap water - Dehydrate rapidly, clear and mount

Results
Eosinophils, Amyloid, Elastin, Keratin: Orange-Red Nuclei: Blue

Notes - Staining times may be modified to provide varying intensities of staining. - Differentiation in step 3 can be arrested in water and resumed if necessary. Over differentiation can occur - A control section containing amyloid must be used.
--

Stability If correctly stored the reagents are usable until the expiry date	Disposal Hazardous reagents included, observe local waste disposal regulations
---	--

Issue No: 0417-04 (05/10/21)

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Masson Trichrome

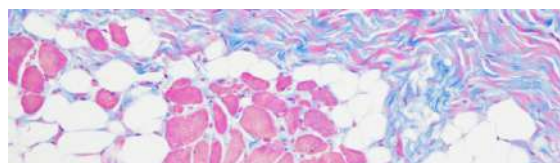
UK NEQAS CPT Scores and Feedback

UK NEQAS describes our **Masson Trichrome** as “Excellent appropriate demonstration of the expected staining results, and a high level of quality”

9/10
UK
NEQAS



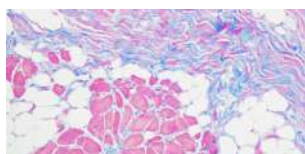
Stain Kit	Score	Result Date
Masson Trichrome	9	Apr 21



As part of each UK NEQAS CPT (Cellular Pathology Technique) assessment, run scores are audited to provide an in-depth feedback to aid in continual improvements within organisations, provide expert help identifying problems and provide access to troubleshooting expertise

Scores range from 0-10 and are based on a number of criteria.

UK NEQAS CPT describes a score of 9 or 10 to show excellent appropriate demonstration of the expected staining results, and a high level of quality.



Masson Trichrome (Methyl Blue) Stain Kit

This stain kit is used to demonstrate connective tissues. Three dyes are used, each with different selectivity for muscle, collagen fibres and erythrocytes hence the term 'trichrome' staining

		100 Test	200 Test	500 Test	1000 Test
Code	Kit Extension:	- 100	-200	-500	-1000
RRSK20	Masson Trichrome (Methyl Blue)	Δ	Δ	Δ	Δ

Kit Components

Haematoxylin Weigerts (Solution A)	Haematoxylin	Ponceau Fuchsin Masson Solution
Weigerts (Solution B)		2% Methyl Blue in 2.5% Acetic Acid
Phosphotungstic Acid 1% Solution		

Haematoxylin Weigerts A



Contains:
Denatured Ethanol: >99%

Code	Pack
RRSP72-D	500ml
RRSP72-E	1L
RRSP72-F	2.5L

Haematoxylin Weigerts B



Contains:
Hydrochloric Acid: <1%
Ferric Chloride: <1%

Code	Pack
RRSP73-D	500ml
RRSP73-E	1L
RRSP73-F	2.5L

Phosphotungstic Acid 1% Solution



Contains:
Phosphotungstic Acid: <1%

Code	Pack
RRSP172-D	500ml
RRSP172-E	1L
RRSP172-F	2.5L

Ponceau Fuchsin (Masson)



Contains:
Acetic Acid <1%

Code	Pack
RRSP5120-D	500ml
RRSP5120-E	1L
RRSP5120-F	2.5L

Methyl Blue 2% in 2.5% Acetic Acid

Contains:
Acetic Acid: <1%

Code	Pack
RRSP112-D	500ml
RRSP112-E	1L
RRSP112-F	2.5L

Certificate of Conformity



DESCRIPTION	Masson Trichrome (Methyl Blue) Stain Kit
PRODUCT CODE	RRSK20
BATCH NUMBER	Allocated at Production
SHELF LIFE	3 Years

Atom Scientific Ltd
Unit 2B
East Tame Business Park
Hyde SK14 4G
United Kingdom
T: + 44 (0) 161 3665123
E: technical@atomscientific.com

SPECIFICATION	The Trichrome Stain Kit (Modified Masson's) is used for the visualization of collagenous connective tissue fibers in tissue sections, being selective for the demonstration of muscle, collagen fibres and erythrocytes. This Kit Contains: - Haematoxylin Weigerts (Solution A) - Haematoxylin Weigerts (Solution B) - Phosphotungstic Acid 1% Solution - Methyl Blue 2% in 2.5% Acetic Acid - Ponceau Fuchsin (Masson) 10x Concentrate - Protocol Sheet
---------------	---

This document certifies that the above product is manufactured to and complies with the company's standard Specification.

It further certifies that each batch is microscopically tested by our internal QC laboratory and meets the company's expected standard.

A handwritten signature in black ink, appearing to read "Peter Keenan".

Peter Keenan
Commercial Director



Product Protocol

Product Name	Masson Trichrome Stain Kit (Methyl Blue) Masson 1929
---------------------	---

Product Code	RRSK20-100
---------------------	-------------------

Reagents <table> <tr> <td>Haematoxylin Weigerts (Solution A)</td><td>1x 50ml</td></tr> <tr> <td>Haematoxylin Weigerts (Solution B)</td><td>1x 50ml</td></tr> <tr> <td>Phosphomolybdic Acid 1% Solution</td><td>2x 50ml</td></tr> <tr> <td>Ponceau Fuchsin Masson solution</td><td>1x 50ml</td></tr> <tr> <td>2% Methyl Blue in 2.5% acetic acid</td><td>1x 50ml</td></tr> </table>	Haematoxylin Weigerts (Solution A)	1x 50ml	Haematoxylin Weigerts (Solution B)	1x 50ml	Phosphomolybdic Acid 1% Solution	2x 50ml	Ponceau Fuchsin Masson solution	1x 50ml	2% Methyl Blue in 2.5% acetic acid	1x 50ml	General Information <table> <tr> <td>Number of Tests:</td><td>100 (based on bench top staining)</td></tr> <tr> <td>Procedure Time:</td><td>50 minutes (approximate)</td></tr> <tr> <td>Shelf Life:</td><td>3 Years (from date of manufacture)</td></tr> <tr> <td>Storage:</td><td>15-25 °C</td></tr> </table>	Number of Tests:	100 (based on bench top staining)	Procedure Time:	50 minutes (approximate)	Shelf Life:	3 Years (from date of manufacture)	Storage:	15-25 °C
Haematoxylin Weigerts (Solution A)	1x 50ml																		
Haematoxylin Weigerts (Solution B)	1x 50ml																		
Phosphomolybdic Acid 1% Solution	2x 50ml																		
Ponceau Fuchsin Masson solution	1x 50ml																		
2% Methyl Blue in 2.5% acetic acid	1x 50ml																		
Number of Tests:	100 (based on bench top staining)																		
Procedure Time:	50 minutes (approximate)																		
Shelf Life:	3 Years (from date of manufacture)																		
Storage:	15-25 °C																		

Principle This kit is used in the histochemical staining of connective tissues, being selective for demonstration of muscle, collagen fibres and erythrocytes. Three dyes are used, Weigerts iron haematoxylin for nuclei, acid fuchsin for muscle, cytoplasm and erythrocytes, methyl blue for collagen. The 3 dyes give selective demonstration of the above structures, hence the term 'trichrome' staining
--

Specimen Collection The use of Bouins Fixative or saturated picric acid will enhance staining. The use of routine formaldehyde fixatives is recommended. Avoid use of glutaraldehyde fixatives. Paraffin embedded sections of tissue cut at 4-5 microns is sufficient

Protocol 1. Prepare Weigert haematoxylin by mixing equal volumes of solution A & B as required (see Note 2) 2. Dewax sections, hydrate through alcohols and rinse in tap water 3. Stain nuclei with Weigert's Iron haematoxylin for 20 minutes, wash quickly in water and differentiate in 1% acid alcohol solution (RRSP175 - not supplied), leaving the nuclei slightly overstained 4. Rinse and blue in water 5. Rinse and stain with ponceau fuchsin solution for 5 minutes. Rinse in distilled water 6. Differentiate and mordant in phosphomolybdic acid for 15 minutes. see note 4 7. Transfer without rinsing to methyl blue solution for 5 minutes 8. Rinse in water 9. Dehydrate, clear and mount
--

Results	
Nuclei:	Blue-Black
Cytoplasm, Neuroglia fibres and Muscle:	Red
Collagen and Mucus:	Blue

Notes 1. Staining times may be modified to provide varying intensities of staining 2. The working solution has been reported to remain active for up to 30 days if stored at 4°C 2. It is recommended that a control slide be used with all sections 4. Ensure phosphomolybdic acid has differentiated the collagen microscopically and if still red put on fresh phosphomolybdic acid for a further 15 mins
--

Stability If correctly stored the reagents are usable until the expiry date	Disposal Hazardous reagents included, observe local waste disposal regulations
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Issue No: 0417-05 (11.10.21)

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